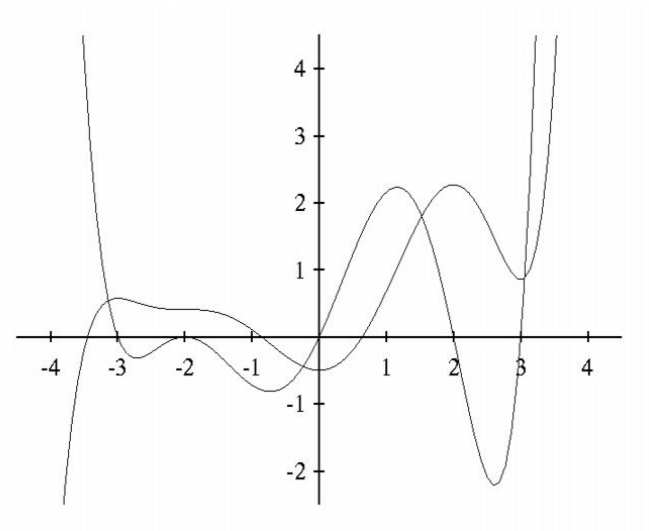
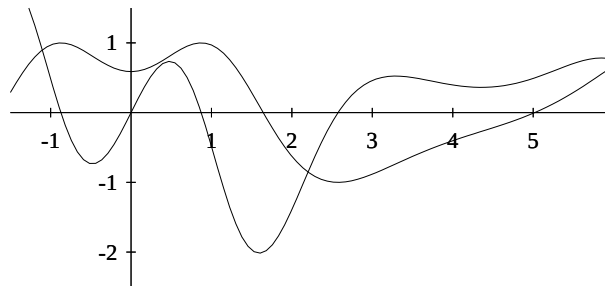


Ableitung I Lösungen

1.



2.



3. $f'(x) = 2x - 2$

4. $f'(x) = \frac{1}{(x+1)^2}$

5. $f'(x) = \frac{1}{\sqrt{2x+3}}$

6. $f'(x) = \frac{x}{\sqrt{x^2+4}}$

7. $f'(x) = -\frac{1}{x^2}$

8. $f'(x) = -\frac{1}{2\sqrt{x^3}}$

$$9. \quad f'(x) = \frac{15x^2 - 1}{2\sqrt{x}}$$

$$10. \quad f'(x) = \frac{x^4 + 2x^3 + 3x^2 - 2x - 1}{(x^2 + x + 1)^2}$$

$$11. \quad f'(x) = \frac{9x^2}{4\sqrt[4]{(3x^3 - 7)^3}}$$

$$12. \quad f'(x) = \frac{2(x^2 + x - 1)}{\sqrt{x^2 + 2x - 1}}$$

$$13. \quad f(x) = \frac{x - 4}{(x + 1)^2\sqrt{x^2 + 4}}$$